

**ABSTRACT****IMPROVED COMMUNICATION NETWORK FOR INDOOR ENVIRONMENT**

The present invention relates to wireless communication networks particularly for indoor deployment, in which there typically directly exists a rapidly changing multipath propagation environment with limited opportunities for line of sight wireless communication. The present invention provides A wireless communications network for communicating with a mobile terminal; comprising: a number of repeater points each comprising means for communicating with the mobile terminal; an access point comprising means for communicating with the repeater points; the repeater points further comprising means for relaying signals between the terminal and the access point; means for determining a quality measure of signals sent by the terminal and received by the access point via the repeater points; means for selecting one or more repeater points to relay transmission signals from the access point to the terminal, said selection based on said quality measures of the terminal signals received by the access point.